WHAT IS CLAIMED IS:

- 1. A positive-working photoresist composition which comprises, as a uniform solution in an organic solvent:
- (A) 100 parts by weight of a resinous compound capable of being imparted with increased solubility in an aqueous alkaline solution by interaction with an acid;
- (B) from 0.5 to 30 parts by weight of a radiation-sensitive acid generating compound capable of generating an acid by irradiation with a radiation; and;
- (C) an organic solvent in an amount sufficient to dissolve the components (A) and (B),

the component (A) being a copolymer consisting of the monomeric units of

- (a1) from 20 to 80% by moles of 2-alkyl-2-adamantyl (meth)acry-late units,
- (a2) from 10 to 60% by moles of 2-oxooxapentyl(meth)acrylate units, and
- (a3) from 10 to 60% by moles of 1-hydroxyadamantyl (meth)acry-late units.
- 2. The positive-working photoresist composition as claimed in claim 1 in which the monomeric unit (al) is a unit represented by the general formula

$$\begin{array}{c}
R^1 \\
-(H_2C - C) \\
C = O \\
0 \\
R^2
\end{array}$$

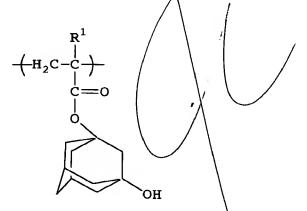
in which R^1 is a hydrogen atom or a methyl group and R^2 is an alkyl group having 1 to 4 carbon atoms.



3. The positive-working photoresist composition as claimed in claim 1 in which the monomeric unit (a2) is a unit represented by the general formula

in which R^1 is a hydrogen atom or a methyl group.

4. The positive-working photoresist composition as claimed in claim 1 in which the monomeric unit (a3) is a unit represented by the general formula



in which R^1 is a hydrogen atom or a methyl group.

- 5. The positive-working photoresist composition as claimed in claim 1 in which the molar fraction of the monomeric units (al) is in the range from 30 to 60%.
- 6. The positive-working photoresist composition as claimed in claim 1 in which the molar fraction of the monomeric units (a2) is in the range from 20 to 50%.

- 7. The positive-working photoresist composition as claimed in claim 1 in which the molar fraction of the monomeric units (a3) is in the range from 20 to 40%.
- 8. The positive-working photoresist composition as claimed in claim 1 in which the component (B) is an onium salt compound having a fluorinated alkylsulfonic acid ion as the anionic counterpart.
- 9. The positive-working photoresist composition as claimed in claim 1 in which the component (C) is a mixture of (c1) propyleneglycol monomethyl ether acetate, ethyl lactate or a combination thereof and (c2) γ -butyrolactone in a mixing proportion of 70:30 to 95:5 by weight.
- 10. The positive-working photoresist composition as claimed in claim 1 which further comprises (D) from 0.01 to 0.2 part by weight of a secondary or tertiary aliphatic amine compound per 100 parts by weight of the component (A).
- 11. The positive-working photores ist composition as claimed in claim 10 in which the component (D) is a trialkanol amine.

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